

**What is claimed is:**

**[Claim 1]** A well treatment system for achieving a transient underbalance condition in a wellbore, the system comprising:

a housing forming a sealed surge chamber; and

a surge charge disposed within the sealed surge chamber, wherein the surge charge is adapted upon activation to penetrate the housing and to not penetrate material exterior of the housing.

**[Claim 2]** The system of claim 1, wherein the pressure within the surge chamber is less than the pressure exterior of the housing.

**[Claim 3]** The system of claim 1, wherein the surge charge has a relatively large-radius explosive cavity.

**[Claim 4]** The system of claim 1, wherein the surge charge has a substantially infinite-radius explosive cavity.

**[Claim 5]** The system of claim 1, wherein the explosive cavity of the surge charge is lined with a low-density material.

**[Claim 6]** The system of claim 1, wherein the explosive cavity of the surge charge is unlined.

**[Claim 7]** The system of claim 1, wherein the housing has a thinned wall section positioned adjacent a explosive cavity of the surge charge.

**[Claim 8]** The system of claim 1, further including:

an explosive perforating charge adapted for penetrating a material exterior of the housing.

**[Claim 9]** The system of claim 8, wherein the perforating charge has an explosive cavity having a radius smaller than the radius of the explosive cavity of the surge charge.

**[Claim 10]** The system of claim 8, wherein the pressure within the surge chamber is less than the pressure exterior of the housing.

**[Claim 11]** The system of claim 8, wherein the pressure within the surge chamber is less than the pressure exterior of the housing.

[Claim 12] The system of claim 8, further including:

an applicator tool adapted to discharge a well treatment fluid.

[Claim 13] The system of claim 8, further including:

an applicator tool adapted to discharge a well treatment fluid.

[Claim 14] The system of claim 9, further including:

an applicator tool adapted to discharge a well treatment fluid.

[Claim 15] The system of claim 14, further including:

an applicator tool adapted to discharge a well treatment fluid.

[Claim 16] A well treatment system, the system comprising:

a housing forming a sealed surge chamber wherein the pressure within the surge chamber is less than the pressure exterior of the housing when the surge chamber is sealed;

a surge charge disposed within the sealed surge chamber, wherein the surge charge is adapted upon activation to penetrate the housing and to not penetrate material exterior of the housing;

a thin walled section formed in the housing adjacent an explosive cavity of the surge charge; and

an explosive perforating charge adapted for penetrating a material exterior of the housing.

[Claim 17] The system of claim 16, wherein the perforating charge has an explosive cavity having a radius smaller than the radius of the explosive cavity of the surge charge.

[Claim 18] The system of claim 16, wherein the explosive cavity of the surge charge is lined.

[Claim 19] The system of claim 16, wherein the explosive cavity of the surge charge is unlined.

[Claim 20] The system of claim 17, wherein the explosive cavity of the surge charge is unlined.

[Claim 21] The system of claim 16, further including:

an applicator tool adapted to discharge a well treatment fluid.

**[Claim 22]** The system of claim 17, further including:

an applicator tool adapted to discharge a well treatment fluid.

**[Claim 23]** The system of claim 20, further including:

an applicator tool adapted to discharge a well treatment fluid.

**[Claim 24]** A method of achieving a transient underbalance condition in a wellbore, the method comprising the steps of:

disposing a housing having a sealed surge chamber within a wellbore; and detonating a surge charge, disposed in the surge chamber, to penetrate the housing thereby providing fluid communication between the surge chamber and exterior of the housing.

**[Claim 25]** The method of claim 24, wherein the surge charge does not penetrate the formation or other material exterior of the housing.

**[Claim 26]** The method of claim 24, wherein the pressure within the sealed surge chamber is less than the pressure exterior of the housing.

**[Claim 27]** The method of claim 25, wherein the pressure within the sealed surge chamber is less than the pressure exterior of the housing.

**[Claim 28]** The method of claim 25, wherein the surge charge has a substantially infinite-radius explosive charge radius.

**[Claim 29]** A method for treating a well, the method comprising the steps of: placing a system in a wellbore proximate a formation to be treated, the system comprising:

a housing having a sealed surge chamber;

a surge charge disposed within the sealed surge chamber, wherein the surge charge is adapted to only penetrate the housing, and

a perforating charge;

detonating the perforating charge to create a tunnel in the formation;

detonating the surge charge to penetrate the housing providing fluid communication between the wellbore and the surge chamber.

[Claim 30] The method of claim 29, wherein the sealed surge chamber has a lower pressure than the wellbore pressure proximate the housing.

[Claim 31] The method of claim 29, further including the step of: disposing a chemical treatment fluid in the wellbore before detonating the perforating charge.

[Claim 32] The method of claim 30, further including the step of: disposing a chemical treatment fluid in the wellbore before detonating the perforating charge.

[Claim 33] The method of claim 29, wherein the surge charge has an explosive cavity with a radius relatively larger than the radius of the perforating charge explosive cavity.

[Claim 34] The method of claim 30, wherein the surge charge has a substantially infinite-radius explosive charge cavity.

[Claim 35] A downhole explosive charge adapted to perforate a surge chamber without damaging objects external of the surge chamber to achieve a transient underbalance condition in a wellbore, the charge comprising:

an explosive having a charge cavity.

[Claim 36] The charge of claim 35, wherein the charge cavity has a finite large radius.

[Claim 37] The charge of claim 35, wherein the charge cavity has a substantially infinite radius.

[Claim 38] The charge of claim 35, wherein the charge cavity has an infinite radius.

[Claim 39] The charge of claim 35, wherein the charge cavity is lined with a low-density liner material.

[Claim 40] The charge of claim 36, wherein the charge cavity is lined with a low-density liner material.

[Claim 41] The charge of claim 37, wherein the charge cavity is lined with a low-density liner material.

**[Claim 42]** The charge of claim 38, wherein the charge cavity is lined with a low-density liner material.